CAT Coalition Update

Cooperative Automated Transportation (CAT) Coalition

A joint effort by AASHTO, ITE and ITSA

in partnership and Cooperative Agreement with USDOT
1. Collaborate with FHWA on 2015 connected vehicle deployment guidance
2. Promote streamlining among USDOT, owner/operator associations, AASHTO, and trade & professional associations
3. Support the development of second phase Connected Vehicle Footprint Analysis
4. V2I-DC Chair will also serve on the CV ELT and provide overall technical support to the Connected Vehicle Executive Leadership Team
5. The Vehicle-to-Infrastructure Deployment Coalition Chair and Connected Vehicle Executive Leadership Team Chair to provide executive input to other Federal, State, and local transportation groups associated with V2I technology deployment.
CAT Coalition Evolution….2013 - Present

V2I DC Structure

CAV ELT

V2IDC Executive Committee

TWG 1: Initiatives
TWG 2: Research
TWG 3: Partners
TWG 4: Guidance
TWG 5: Standards

USDOT
- ITS JPO
- FHWA
- FTA
- NHTSA
What is Cooperative Automated Transportation (CAT)?

• It is cooperative – it requires reliable, two way communications and two-way information exchange – among all modes, users, managers, and operators

• It is automated – it enables all modes to cooperatively enhance the safety and mobility of the system

• It is transportation – in all modes, systems, and uses.
The CAT Coalition Today – 2019...

**Co-Chairs**
Roger Millar, WSDOT & Jennifer Cohan, Del DOT

**Programmatic & Strategic Activities**
Focus is on documenting needs and best practices for programmatic, strategic, and technical activities to encourage CAT deployment & operation through initiatives such as the SpAT Challenge & Connected Fleet Challenge.

- **Policy, Legislative and Regulatory Working Group**
  - J. Toth
  - P. Ajebaga

- **Strategic Initiatives Working Group**
  - B. Leonard
  - J. Averkamp

**Planning, Scenarios, & Resources**
Supports the CAT industry in understanding Automated Transportation planning & scenario development, available resources, and documenting resource needs.

- **Planning / Scenarios Working Group**
  - S. Rosenberg
  - J. Sydello

- **Technical Resources Working Group**
  - F. Saleem
  - N. Katta

**Infrastructure & Industry**
Supports the CAT industry in defining the digital & physical CAT infrastructure, and establishing secure, verified connections between vehicles & this infrastructure.

- **Infrastructure Industry Working Group**
  - T. Larkin-Thomason
  - S. Gherring

- **IOO/OEM Forum**
  - C. Castle
  - N. Shulman

**Focus Areas**
- **Near-term Tactical Approach**
  - Research Testing and Demonstration (e.g. NCHRP 20-102, CV Pilot Sites, ATCMTD Sites, and other Federally & State led activities)

**Description**
- Peer Exchange & Outreach Working Group (E. Seymour) – Supports all focus areas
CAT Coalition
Recent Activities / Accomplishments

Programmatic & Strategic Accomplishments (examples)
• Truck Platooning Policy Paper
• CAT Policy Framework Clearinghouse
• Launch of Connected Fleet Challenge

Planning Scenarios & Resources Accomplishments (examples)
• Identified gaps regarding CAT resource needs
• Developed white paper on CAT resources
• Reviewed and offered input on several (13+) resources / documents

Infrastructure & Industry Accomplishments (examples)
• Reduced Speed Zone Warning Application ConOps
• Testing of Software tool chain for work zone MAP creation
• Initiated Development of Clarifications on Ambiguities in V2I Communications
CAT Coalition
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- SPaT Challenge Webinar #10
- Launch of Connected Fleet Challenge

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SPaT Challenge Locations

SPaT Deployment Underway

SPaT Deployment Operational
CAT Coalition Website
http://www.transportationops.org/catcoalition
Discussions… Q & A…

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